

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| L54   | 2    | "5443591".pn.  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 12:30 |
| L55   | 36   | ("5443591").URPN.  | USPAT                                      | OR               | ON      | 2007/05/21 12:30 |
| L56   | 27   | ("5256079"   "5443591"  <br>"5454727").PN. OR ("5679020").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR               | ON      | 2007/05/21 12:39 |
| L57   | 25   | ("4217020"   "4375309"  <br>"4420205"   "4988310"   "5013256"<br>  "5167515"   "5370549"  <br>"5387121"   "5443591"   "5569045"<br>  "5597318"   "5622514"  <br>"5658160"   "5679020"   "5697803"<br>  "5762511"   "5791928"  <br>"5833483"   "6168449"  <br>"6186815").PN. OR ("6431899").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR               | OR               | ON      | 2007/05/21 12:44 |
| L58   | 27   | ("5256079"   "5443591"  <br>"5454727").PN. OR ("5679020").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR               | ON      | 2007/05/21 12:59 |
| L59   | 3    | ("4377319"   "4744768").PN. OR<br>("5256079").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR               | ON      | 2007/05/21 13:13 |
| L60   | 0    | socket near retaner and bars and<br>grooves and clips  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 13:14 |
| L61   | 6    | socket near retainer and bars and<br>grooves and clips   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 13:15 |
| L62   | 0    | BGA and socket near retainer and<br>bars and grooves and clips   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 13:20 |
| L63   | 12   | BGA and bars and grooves and clips   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 13:21 |
| L64   | 0    | BGA and retainer near bars   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/05/21 13:22 |

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|-----|-----|---|---|----|----|------------------|
| L65 | 862 | BGA and bars  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                    | OR | ON | 2007/05/21 13:26 |
| L66 | 57  | BGA and bars and clips  | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                    | OR | ON | 2007/05/21 13:26 |
| L67 | 8   | ("4456318"   "5109980"  <br>"5364286"   "5368498"   "5387120"<br>  "5482471"   "5603629"  <br>"5800194").PN.  | US-PGPUB;<br>USPAT;<br>USOCR                                  | OR | ON | 2007/05/21 13:37 |
| L68 | 2   | "6431899".pn.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                    | OR | ON | 2007/05/21 13:38 |
| L69 | 20  | ("4217020"   "4375309"  <br>"4420205"   "4988310"   "5013256"<br>  "5167515"   "5370549"  <br>"5387121"   "5443591"   "5569045"<br>  "5597318"   "5622514"  <br>"5658160"   "5679020"   "5697803"<br>  "5762511"   "5791928"  <br>"5833483"   "6168449"  <br>"6186815").PN. | US-PGPUB;<br>USPAT;<br>USOCR                                  | OR | ON | 2007/05/21 13:39 |
| L70 | 5   | ("4420205"   "4531792"  <br>"4988310"   "5370549"  <br>"5658160").PN.   | US-PGPUB;<br>USPAT;<br>USOCR                                  | OR | ON | 2007/05/21 13:40 |
| L71 | 52  | ("3763459"   "4083619"  <br>"4331371"   "4341429"  <br>"4343524").PN. OR ("4420205").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                  | OR | ON | 2007/05/21 13:41 |
| L72 | 45  | ("2635131"   "2888658"  <br>"2982883"   "3315212"  <br>"3594698").PN. OR ("3763459").<br>URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                                  | OR | ON | 2007/05/21 13:54 |
| L73 | 2   | socket near warpage and grooves<br>and bars   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                    | OR | ON | 2007/05/21 13:55 |
| L74 | 10  | Zif near socket and grooves and<br>bars   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                    | OR | ON | 2007/05/21 13:56 |
| L75 | 10  | Zif near socket and grooves and<br>bars   | USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21 13:56 |

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|     |    |   |  |    |    |                  |
|-----|----|---|--|----|----|------------------|
| L76 | 30 | ("5123850"   "5547389"   "5893770"   "6004141").PN. OR ("6219241").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 13:57 |
| L77 | 7  | ("3766439"   "4169642"   "4341842"   "4597617"   "4679118"   "4859189"   "4922376").PN.   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:04 |
| L78 | 2  | "6692280".pn.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21 14:05 |
| L79 | 8  | ("4456318"   "5109980"   "5364286"   "5368498"   "5387120"   "5482471"   "5603629"   "5800194").PN.   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:10 |
| L80 | 28 | ("3409861"   "3831131"   "3904262"   "4260210").PN. OR ("4456318").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:12 |
| L81 | 25 | ("4345810"   "4456318"   "4502747"   "4504105"   "4515424"   "4515425"   "4553805"   "4560216"   "4560217"   "4601525"   "4715835"   "4760161"   "4761140"   "5009608"   "5109980"   "5120238"   "5241453"   "5244404"   "5302853"   "5344334"   "5387120"   "5485351"   "5669784"   "5761036"   "6244875").PN. | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:13 |
| L82 | 13 | ("3940786"   "3942854"   "4220383").PN. OR ("4345810").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:14 |
| L83 | 37 | ("3757271").PN. OR ("3940786").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:14 |
| L84 | 30 | ("2898522"   "2905920"   "3011379"   "3026494"   "3164750"   "3335327"   "3340439"   "3409857"   "3663920").PN. OR ("3757271").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:21 |
| L85 | 5  | Renfro near Tim .inv.   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21 14:21 |
| L86 | 13 | ("4340858"   "4597617"   "4766371"   "4899107"   "5027062"   "5123850"   "5140405"   "5177439"   "5225037"   "5302891"   "5336649"   "5336992"   "5389885").PN.   | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:29 |

## EAST Search History

|     |   |  |  |    |    |                  |
|-----|---|--|--|----|----|------------------|
| L87 | 1 | warpage same reducing and bar<br>and zif   | USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21 14:30 |
| L88 | 8 | ("4456318"   "5109980"  <br>"5364286"   "5368498"   "5387120"<br>  "5482471"   "5603629"  <br>"5800194").PN. | US-PGPUB;<br>USPAT;<br>USOCR               | OR | ON | 2007/05/21 14:30 |